

# 9th Class 2021

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|------------------|------------------|-----------|
| Physics          | Group-I          | Paper-I   |
| Time: 15 Minutes | (Objective Type) | Marks: 12 |

**Note:** Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

**1-1- In SI, unit of pressure is Pascal, which is equal to:**

- (a)  $10^4 \text{ Nm}^{-2}$  (b)  $1 \text{ Nm}^{-2}$  ✓  
(c)  $10^2 \text{ Nm}^2$  (d)  $10^3 \text{ Nm}^{-2}$

**2- Mass of the Earth is:**

- (a)  $6 \times 10^{24} \text{ kg}$  ✓ (b)  $6 \times 10^4 \text{ kg}$   
(c)  $6 \times 10^{20} \text{ kg}$  (d)  $6 \times 10^{10} \text{ kg}$

**3- The number of perpendicular components of a vector are:**

- (a) 1 (b) 2 ✓  
(c) 5 (d) 4

**4- In solids, heat is transferred by:**

- (a) Radiation (b) Conduction ✓  
(c) Convection (d) Absorption

**5- The ways by which transfer of heat takes place are:**

- (a) 1 (b) 2  
(c) 3 ✓ (d) 4

**6- Which one of the following is the smallest quantity?**

- (a) 0.01 g (b) 2 mg  
(c)  $100 \mu\text{g}$  (d) 5000 ng ✓



- 7- If the velocity of a body becomes double, then its kinetic energy:
- (a) Remains same
  - (b) Becomes double ✓
  - (c) Becomes four times
  - (d) Becomes half
- 8- A change in position is called:
- (a) Torque
  - (b) Velocity
  - (c) Displacement ✓
  - (d) Momentum
- 9- Which of the following material has largest specific heat?
- (a) Copper
  - (b) Ice
  - (c) Water ✓
  - (d) Mercury
- 10- Earth's gravitational force of attraction vanishes at:
- (a) 6,400 km
  - (b) Infinity ✓
  - (c) 42,300 km
  - (d) 1,000 km
- 11- Inertia depends upon:
- (a) Force
  - (b) Net force
  - (c) Mass ✓
  - (d) Velocity
- 12- Rate of change of momentum is equal to:
- (a) Torque
  - (b) Force ✓
  - (c) Distance
  - (d) Velocity